



# University of Kentucky<sup>®</sup>

*Procurement Services*

REQUEST FOR PROPOSALS

UK-2564.0-11-25

CONSTRUCT HEALTH EDUCATION BUILDING – ELECTRICAL EQUIPMENT

ADDENDUM # 01

07/24/2024

**ATTENTION:** This is not an order. Read all instructions, terms, and conditions carefully.

**IMPORTANT: RFP AND ADDENDUM MUST BE RECEIVED BY 07/30/2024 @ 3:00 P.M. LEXINGTON, KY TIME**

Offeror must acknowledge receipt of this and any addendum as stated in the Request for Proposal.

Item No. 01    Replace Project General Work Requirements with updated version.

Item No. 02    See answers to all submitted questions.

Item No. 03    JRA Architects Addendum No. 01 – include all work scope items, clarifications, etc. as detailed consistent with your trade contract work scope document.

**OFFICIAL APPROVAL**  
**UNIVERSITY OF KENTUCKY**

Corey W. Leslie, AD, Construction Procurement

**SIGNATURE**

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Typed or Printed Name

CCK-2564.0-11-25  
Question and Response Log  
Question Deadline

#	Question	Response
1	Is there a generator package included with this bid? I see there are generators on the project overall; however, I do not see any specifications regarding a generator(s), and they are also grayed out on the one-line.	Generators aren't part of this bid package and will be included in a later bid package.
2	Do you happen to have busway footages for the Health Education Building bidding next week?	The Busway footage can be estimated from the scaled drawings in the Bid Package. Specifically you can look at Dwgs. E-400Q, E-400S, E-600Q.

TURNER CONSTRUCTION COMPANY

**HEALTH EDUCATION BUILDING**

PROJECT GENERAL REQUIREMENTS

**UK PROJECT 2564.0****GENERAL WORK REQUIREMENTS**

<b>A.</b>	<b>GENERAL</b>
1.	In these contract documents the term "provide" shall be defined as meaning "furnish and install."
2.	All Trade Contractors shall provide full time supervision while its forces are working on this Project. The Trade Contractors' jobsite supervision shall be experienced in his trade and be capable and have authority to make decisions regarding costs, manpower, and schedule. The Trade Contractors shall obtain the approval of the Construction Manager of his job management personnel prior to their assignment to the Project. Trade Contractors' supervision and management personnel shall not be changed without prior approval of the Owner or Construction Manager.
3.	All contractors shall review the documents to understand what work is included in this <b>Health Education Building</b> Project. Ask specific questions with any clarifications needed.
4.	Work hour details for this Project's existing areas: a. Assume ALL work contained in this work scope that occurs in occupied areas/buildings shall be performed AFTER normal working hours (off shift work hours). b. <b>Health Education Building</b> construction area – 6:30am to 5:30 pm Monday to Friday. c. Special work hours and off shift hours will be determined for noise making activities such as hoe ramming, drilling, sawcutting, shot pin installs, etc. Assume hours for this work will be 8 am to 8 pm.
5.	Trade Contractors shall not order or <b>consign</b> materials for the project in the name of the Owner, Architect, or Turner. Turner Reserves the right to reject all such shipments received in this manner. Deliveries must be coordinated with the Construction Manager a minimum of (1) week prior to receipt on site. Any material deliveries without notice will be given access on an "as available" basis. Also reference Turner's standard subcontractor contract 36 article VI.
6.	Trade Contractors are responsible to <b>protect and repair if damaged</b> all adjacent properties and structures, including lawn, planting areas, hardscapes and trees as required to execute the work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work. Trade Contractors will be responsible for immediately replacing/repairing any damage to existing utilities, existing structures, lawn and planting beds, and hardscapes in or outside of the building limits caused by the trade contractor's workforce.
7.	It is the responsibility of each Trade Contractor to make certain that all of its Work performed under the Construction Contract is in accordance with all applicable laws, statutes, ordinances, codes, and regulations. Trade Contractors shall give all notices and comply with all laws, ordinances, rules, regulations, and orders of any public authority with jurisdiction over the performance of the Work. Contractor shall promptly pay all fees, taxes, deposits, charges, penalties, or interest that may be claimed against or paid by Owner/Construction Manager due to any failure to comply with any such laws, statutes, ordinances, codes, or regulations (including those pertaining to permits, licenses, or notices). This shall include any and all professional engineering fees required.
8.	All Trade Contractors must employ the proper trades and provide <b>composite crews</b> if necessary to perform this Scope of Work and to avoid jurisdictional disputes.
9.	Each trade contractor is to provide their own <b>drinking water</b> .
10.	Contractors must be <b>licensed</b> as required by local, State, or Federal jurisdiction required for work of their respective trade in this project location. Contractors are to obtain any and all required licenses including a <b>Contractor's license</b> fee for doing business in the locale. Provide copies of the license to the Construction Manager.
11.	Upon request, Trade Contractors must provide the Construction Manager with field copies of latest <b>referenced standards</b> .
12.	The Contract Price shall be based on a normal forty (40) hour workweek unless otherwise specified i.e. first shift but may be staggered, Monday - Friday. All work to be performed for tie-ins to existing utilities/services shall be figured at a rate outside the normal (40) hour workweek. All tie-in work shall be scheduled with written approval and coordinated with Turner's Superintendent. Unless Turner's Project Superintendent issues written instruction/agreement otherwise, if a contractor works beyond the eight (8) hours per day, five (5) days per week normal work period, he shall bear all added costs. Trade Contractors shall notify Turner's Project Superintendent by 12:00 PM (noon) 2-days before the requested overtime to allow time to make proper arrangements. <u>Overhead and profit markup shall not be permitted on premium time costs or on shift work premiums (see General Conditions).</u>
13.	All Trade Contractors' superintendents and foremen are required to have cell phones compatible for reception in and around the project areas for daily contact. All Trade Contractors and their sub-contractors are required to have at least one (1) iPad each that will be used for review of electronic drawings and other project information as well as at least one (1) iPad each that will be used for electronic punchlists and project execution via Procore. These iPads are to be used on the construction site and shall be onsite at all times each company's workers are present for those worker's use. iPads shall have their own internet connectivity. Trade Contractors should not assume internet connectivity will be available on-site via Wi-Fi.
14.	The Trade Contractors must attend all <b>required meetings</b> as follows:

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	<ul style="list-style-type: none"> <li>a. The <b>Weekly Work Plan meeting</b> for overall job coordination. Attendance is mandatory for <u>all</u> Trade Contractor <u>superintendents and foreman</u>. All attendees must have the authority to make decisions and commitments.</li> <li>b. The <b>Weekly Six Week Look Ahead Planning meeting</b> for overall job coordination. Attendance is mandatory for all Trade Contractor <u>Project Managers</u>. All attendees must have the authority to make decisions and commitments.</li> <li>c. The <b>Monthly Project Safety Meeting</b>. Additional supplemental meetings will be held due to incidents, field safety violations, etc. by this or other trade contractors / tiered subcontractors.</li> <li>d. The <b>Monthly Trade Review Meeting</b>. The project manager, superintendent, and foreman for each crew/trade are required to be in attendance. These meetings are to discuss current schedule, issues, manpower, and address any other questions or concerns. These meetings will start in the same month as your start of work and will continue until determined otherwise by the construction manager.</li> <li>e. The <b>Monthly Safety Committee Meeting</b>. Each Trade Contractor will have the responsibility to provide an <u>individual</u> to attend the Monthly Safety Committee Meeting. This individual should be considered a competent employee that is able to represent the Trade Contractors' scope of work by having at least 5 years in the trade. The purpose of this meeting is to provide an opportunity to disseminate project safety related information and to receive the helpful feedback from the tradesmen in the field.</li> <li>f. The <b>Daily Stand-Up meetings</b>. Attendance is mandatory for all Trade Contractor <u>superintendents and/or foreman</u>.</li> <li>g. The <b>Reverse Phase Schedule meetings (Pull Plan)</b>. Attendance is mandatory for all applicable Trade Contractors. Those trade contractor's <u>project managers and superintendents</u> are required to attend. These will be held at the Construction Manager's discretion.</li> <li>h. The <b>Morning Stretch and Flex</b>. <u>All persons</u> on the project must be in attendance to work that day. Anyone coming in after the stretch and flex has the potential to be removed from site.</li> <li>i. The <b>Pre Task Plan (PTP) meeting</b>. Each trade contractor is responsible for holding these meetings each day after the stretch and flex. The trade contractor's <u>superintendent and/or foreman</u> will be responsible for running this meeting. Each trade contractor is responsible to ensure their sub tier contractors participate in a PTP meeting for the day.</li> <li>j. The <b>Utility Outage Planning meeting</b>. <u>All superintendents and foreman</u> <b>needing outages</b> are required to attend this meeting.</li> <li>k. Separate mechanical and electrical coordination meetings will be held on the jobsite as often as required to facilitate progress of the work.</li> <li>l. <b>Quality Assurance / Quality Control meeting (QA/QC)</b>: The construction manager intends to hold a once a month QA/QC meeting. This meeting may be selective with trade contractor <u>project managers, superintendents, and foreman</u> invites for focus on topic. The intent is to limit the meeting to one hour. The option of several meetings is possible with small groups on differing divisions of work. Trade contractors will be required to provide a specific <b>quality control plan</b> for said division of work. We can focus of QA/QC in the specifications, manufacturer's data, mock-up, sign-off sheets, applicable testing and jurisdiction authorities, inspections, deficiency list, special care and protection, peer reviews, sequencing of work and turnover, etc.</li> <li>m. The <b>Job Hazard Analysis (JHA) meeting</b>. This meeting will be before the start of the trade contractor's work. No work will start before this meeting. This meeting will require the trade contractor's <u>safety person, the project manager, the superintendent, and any foreman</u> that will be on that project. All JHAs will be complete prior to this meeting and sent in to Turner for review.</li> <li>n. The <b>Pre-Start Work meeting</b>. The purpose of this meeting is to review the drawings and specs with the trade contractor's <u>project manager, superintendent, and foreman</u> to ensure that the project will be completed according to specifications. Sub tier contractors (including material suppliers) may be required to attend. It will be the responsibility of the trade contractor to ensure the attendance of all required persons from any sub tier contractor needed.</li> <li>o. Any Meeting as required by the Owner, Architect, or Construction Manager</li> </ul>
15.	Each contractor will be responsible for the <b>security</b> of his own stored material, job office, conex box, gang box, equipment, tools, etc.
16.	<b>Project signs or advertisements</b> of any nature, including job offices shall not be installed on the jobsite or structure without preapproval of Construction Manager and the Owner. In general, identification lettering of company offices shall be six inches or less; location(s) still must be preapproved by the construction manager and the owner.

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17.	All Trade Contractors shall include work made necessary by field conditions that may not be shown in the Contract Documents, but that are apparent during an inspection of the construction site. Trade Contractors must <b>familiarize</b> themselves with the jobsite prior to starting work.
18.	All equipment is to be equipped with high efficiency, durable construction exhaust purifiers (“ <b>Scrubbers</b> ”). Each Trade Contractor is responsible for providing and maintaining (including filter changes) scrubbers for each piece of equipment.
19.	All trade contractors are to be responsible to ensure at the end of each day’s work shift the <b>building perimeter is secure</b> and locked down and all of their respective employees are offsite.
20.	All construction crews on site are a <b>minimum of two</b> people. No single person crews allowed. This may consist of one ground person and one person in the air.
21.	A special effort is to be made to provide the necessary <b>protection to keep oil</b> (from lifts, equipment, etc.) off of all floor areas. The offending Trade Contractor will be responsible for any clean-up required due to inadequate protection.
22.	<b>The University of Kentucky campus and medical campus are tobacco free.</b> “Use of all tobacco products is prohibited in all owned, operated, leased or [health care] controlled university buildings, grounds, parking structures, enclosed bridges and walkways, sidewalks, parking lots and vehicles, as well as personal vehicles in these areas.” “Tobacco includes cigarettes, pipes, snuff, chewing tobacco, e-cigarettes, etc.” There are tobacco treatment centers such as the Local health departments (Fayette county Health Department 859-288-2327), 1-800-quit-now. For listings “go to the UKhealthcare.uky.edu to find a link to a statewide listing of tobacco programs.
23.	Contractor shall track their fuel and utility consumption for the duration of their contract. This information shall be turned over to the CM on a monthly basis. Any utilities used through the University will be paid via the special conditions.
<b>B.</b>	<b>SAFETY</b>
1.	All Trade Contractors must fully comply with the Construction Manager’s corporate <b>safety policy</b> , comply with the Site Specific <b>Safety Plan</b> (included in this manual as <b>attachment ‘C’</b> ), and all federal, state, and local safety ordinances. The Trade Contractor must also submit a formal written project specific safety plan that is complimentary to the Construction Manager’s Safety Plan. <ul style="list-style-type: none"> <li>a. In addition, all Trade Contractors shall provide a competent safety person to monitor all aspects of the Trade Contractors’ work in accordance with the Safety Plan.</li> <li>b. All workers must go through Safety Orientation prior to commencing work. Safety Orientations will be held Mondays and Wednesdays at <b>7:30 am</b> (pending staggered shift(s)) in the Turner jobsite office. Special orientation times will be approved at the discretion of the construction manager.</li> <li>c. All Trade Contractor “Principals” are required to attend a monthly safety jobsite walkthrough at the Construction Manager’s discretion.</li> <li>d. In order to work on this project, a negative drug test is required prior to starting work. For “<b>Drug project testing requirements</b>”, refer to Turner safety program.</li> <li>e. All lifts used on the project site must have powered steering front wheels.</li> </ul>
2.	
3.	All <b>deliveries requiring a crane</b> (excluding the tower cranes) will require an approved lifting plan per Turner’s safety plan and must be approved by Turner and UK. A UK lifting plan must also be submitted to the construction manager to gain approval from UK. <u>Allow six (6) weeks minimum prior to the crane arriving onsite to gain these approvals.</u>
4.	It is the responsibility of the Trade Contractors to contact the local <b>utility locating</b> service and have all utilities located prior to mobilizing heavy equipment used for lifting or hoisting. The Trade Contractors should also contact the Owner (UK), through the Construction Manager, and have all UK owned utilities located as well.
5.	All <b>plastic</b> used on site must be fire retardant.
6.	<b>Smaller floor openings:</b> the respective trade providing opening will cover with reinforced secured plywood. Mark “hole” and maintain as required. Small opening metal deck cutouts will be by respective trade requiring opening; respective trade contractors will comply with OSHA requirements during and after alterations.  Floor covers shall be constructed in such a manner to avoid any random kicking off, and elevated high enough to control lifts, etc. from running over them. These covers should be anchored to the concrete floor and painted orange. Note ALL sleeves” are elevated 1-1/2” above rough slab.
<b>C.</b>	<b>BONDS AND INSURANCE</b>
1.	<b>PAYMENT AND PERFORMANCE BONDS</b> The base bid should NOT include <b>Payment and Performance Bonds</b> . Provide, for reference, the additional cost to provide them on the trade contractors Bid Breakout sheet.

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2.	<p><b>CONTRACTOR CONTROLLED INSURANCE PROGRAM (CCIP)</b></p> <p>a. The project will incorporate a <u>Contractor Controlled Insurance Program (CCIP)</u> as described in the CCIP Manual included in the Project Manual. The Lump Sum Base Bid amount should not include on-site worker's compensation costs, commercial general liability, or excess liability costs for this work, in accordance with the CCIP Manual. Trade Contractors are responsible for &amp; must provide evidence of automobile insurance and offsite general liability &amp; worker's compensation. Trade Contractors <b>must submit required forms on the website</b> to be enrolled in the CCIP.</p> <p>i. Trade contractors will not be able to start any work on site until they are enrolled in the CCIP program. This process will take a minimum of two (2) weeks. Any delays caused by late submission shall be borne by the trade contractor responsible. This includes the cost for overtime and extra crews to maintain the project schedule.</p> <p>ii. All sub tier contractors will be required to enroll in the CCIP program.</p>
3.	<p><b>Builder's Risk Insurance</b> is provided by the Construction Manager per the terms of the General Conditions Article 35.5. Unless otherwise provided for through agreement, the Trade Contractor experiencing any loss claimed under the builder's risk policy shall be responsible for that loss up to the amount of the deductible. Trade Contractor(s) may provide their own coverage for amounts up to the deductible. Refer to the General Conditions, Article 35.5 for deductible limits.</p>
<p><b>D. SITE LOGISTICS</b></p>	
1.	<p><b>Storage</b> of bulk amounts of materials and equipment is restricted due to limited space on the jobsite and within the limitations of the staging area. This project will be utilizing "Just-in-Time" delivery and "Kit-of-Parts" prefabrication. Trade Contractors must schedule and cycle no more material than can be installed in-place <b>within a 5 day or less period</b>. Moving of materials stored inside the staging areas will be necessary and the Trade Contractors shall promptly respond to any request from the Construction Manager to move material. Trade Contractors shall include required costs for off-site storage and any additional handling of materials involved with offsite storage.</p> <p>a. All building materials (studs, conduit, pipe, forms, etc.) shall be stored on pallets, dunnage, or a sortable material cart. All contractors shall employ a "nothing hits the ground" mentality.</p>
2.	<p><b>Access to/from the existing surrounding buildings (see SK-001)</b> by the staff, students, public, delivery trucks, etc. is to be maintained at all times. Fire department access must also be maintained to the surrounding buildings during construction. It shall be the responsibility of the Trade Contractors to ensure that all road entrances, exits, fire lanes, building entrances, loading docks, etc. are not blocked by the progress of its work, its deliverymen or contractors in their employ. This is inclusive of providing temporary access and protection including, but not limited to temporary walks, overhead protection, barricades, signage, etc. Temporary provisions are to be in accordance with UK standards. This access and protection shall be to the satisfaction of the Construction Manager.</p>
3.	<p>The University Dr./Veterans Dr, entrance/exit will be used as the main <b>construction entrance/exit</b> (see Gate 2 on SK-002). Secondary entrances (Gate 6 and Gate 7) are also available for use after coordination with the Construction Manager and Yard Boss</p>
4.	<p>Trade Contractors are to provide all <b>street permits</b>, bonds, police details, flagman, off-duty police, street/lane closure permits, traffic control, and barricades as required to complete the work. This includes deliveries of material. Roadways and driveways <b>may not be blocked without prior approval</b>. Furnish copies of all permits to the Construction Manager.</p>
5.	<p>This project is around existing University buildings. <b>Utilities or services</b>, including pavement to the Owner's facilities (and surrounding facilities) must be protected and maintained 100% of the time when possible (as determined by the Owner, Consultant, or Construction Manager). All costs associated with the work required to maintain service shall be the responsibility of the Trade Contractor performing the associated work. The Trade Contractor(s) are responsible to immediately repair any utility damaged or disrupted during the course of its work whether the utility be known or unknown. If the utility is unknown, the Trade Contractor(s) making the repair will be compensated for the work. If the utility is known, the Trade Contractor(s) is responsible and liable for any and all costs of repairs. Failure to immediately repair damaged utilities per the requirements of the utility Owner will result in the work being performed by others at the Trade Contractor's expense. Repair work shall begin immediately and be continuous (24/7) until the service is restored. All costs associated with this work to repair known utilities are the responsibility of the Trade Contractor. If unknown utilities are discovered, they must be reported to the Construction Manager in writing who will in turn investigate with the assistance of the Engineer and Owner.</p>
6.	<p><b>USE OF PREMISES</b></p> <p>a. <b>PARKING &amp; TRANSPORTATION:</b></p> <p>i. Contractor <b>parking</b> is <b>NOT</b> permitted on the job site or on the University of Kentucky Campus.</p> <p>ii. Turner cannot guarantee that UK will issue passes to any lots on the University campus. Parking is at the discretion of the bidding contractor.</p> <p>iii. No parking is permitted in the Whitney Hendrickson Parking Lot or in any UK Parking Structures.</p>

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	<ul style="list-style-type: none"> <li>iv. Any and all parking permitting costs or parking violations shall be borne by the Trade Contractors.</li> <li>v. Contractors will be able to park in the trailer lot as shown on SK-001. Parking passes will be given out on an as needed basis. Contractor can assume 4 passes per prime contractor in this lot, one for their foreman and the other for their shuttle bus.</li> </ul> <p><b>b. CAMPUS:</b></p> <ul style="list-style-type: none"> <li>i. Trade Contractors are expressly forbidden to enter existing campus buildings (excluding Dimock) except for specific construction purposes. Restrooms, drinking fountains, vending machines, gift shop and food service areas are NOT for Trade Contractor use unless otherwise directed by the Construction Manager.</li> <li>ii. Trade Contractor communications with University Staff, Faculty and students is strictly forbidden.</li> <li>iii. “Catcalling” or otherwise harassing University Staff, Faculty, Students, or the general public is strictly forbidden. Noncompliance with this provision is grounds for immediate dismissal from the jobsite. Additionally, the tradesperson and Trade Contractor may be subject to legal action.</li> </ul>
7.	All contractors shall review delivery access routes and include any temporary removal/relocation of existing items (AHU platform rails, stairs, etc.) to transport their materials and equipment.
8.	<b>Temporary facilities (toilets)</b> for this project will be located on or near the project site See SK-001. Trade contractors are not permitted to use the active university building toilets.
9.	All contractors shall assume all breaks including lunch shall be taken at the Project Break Area (location shown on SK-001). Taking break and lunch at work areas on project site will not be permitted.
10.	<b>Office and storage trailer(s)</b> will not be permitted onsite due to site limitations. Trade Contractors will be allotted space for one (1) 40’x10’ conex box or trailer in the Trailer Lot for storage and/or office space (see SK-001). Stacking of conex boxes is allowed, but must be approved by Turner. Each perspective TC will be responsible for ALL utilities required at conex box. Break area for workers will be located in the Dimock Building (see SK-001).
11.	Two tower cranes will be provided for use by the contractors. <ul style="list-style-type: none"> <li>a. Tower Crane hours of operation will be from 7:00 AM and 5:00 PM. <ul style="list-style-type: none"> <li>i. During Architectural Precast (TC-001) and Curtain Wall (TC-002) overlapping work, (1) one tower crane will be available from 7:00 AM – 8:30 PM. TC-002 (Curtain Wall Contractor) will have crane time from 7:00 AM to 12:00 PM. TC-001 (Architectural Precast) will have crane time from 12:30 PM to 8:30 PM.</li> </ul> </li> <li>b. Priority for Tower Crane usage: <ul style="list-style-type: none"> <li>i. Steel Erection/Precast Shafts</li> <li>ii. Architectural Precast</li> <li>iii. Curtain Wall/Metal Panels</li> <li>iv. All other trades</li> </ul> </li> </ul>
12.	<b>Fuel storage</b> on site is NOT allowed and fueling procedures must comply with applicable regulations, Project Safety Plan and receive the Construction Managers approval. No gasoline or diesel powered equipment will be operated inside enclosed building areas. There will be no fuel storage permitted inside the building.
13.	All foreman/site lead will be required to carry an <b>Apple AirTag</b> when crews are on site. This will allow Turner to know all crews have left the project safely at the end of the day, and the site has been vacated. These AirTags will be purchased by each trade and are to remain with the project at the end of their respective scope. Every subcontractor’s crew leader will be required to have an AirTag while they are working on the project. These air tags shall be purchased through Apple with specific engraving requirements determined by Turner. The costs for these air tags are \$29.00 each with a lead time of 1 week.
<b>E.</b>	<b>MEANS AND METHODS</b>
1.	All Trade Contractors must provide all necessary <b>fasteners, supports, and attachments</b> for the installation of their own work. Trade Contractors must submit to the Construction Manager for approval by the A/E, the means and methods in which they plan on attaching hanger/supports to decks.
2.	Trade Contractors are responsible to survey and inspect all <b>substrate work</b> performed by others prior to starting its own work. Any and all discrepancies, out of tolerance work, or otherwise unacceptable work must be reported the Construction Manager in writing prior to the start of work. The start of work indicates acceptance of the substrate material.
3.	Each Trade Contractors acknowledges that his Work must be <b>coordinated</b> with the work of other trades and further agrees to coordinate his shop drawings, details, and submittals with those of other trades to ensure proper installation of all materials in accordance with the Project Schedule.

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4.	Each Trade Contractor shall <b>protect</b> his own Work and materials adjacent to his work until accepted by the Architect, Engineer, Construction Manager and the Owner. Trade Contractors shall be responsible for replacing, repairing, or the expense to repair, any damage caused by the performance of their Contract Work. In the event damages occur to existing work and is unidentifiable to a specific trade, all repairs and replacement costs will be distributed equally to all trades working in that area.
5.	Each Trade Contractors, upon notice, shall correct all <b>deficiencies</b> in a timely manner before proceeding with the next sequence of Work. Trade Contractors shall be financially liable for any delays to the Project or other contractors due to their deficiencies or the untimely correction of their deficiencies.
6.	Each Trade Contractor requiring <b>temporary protection or temporary heat</b> to complete its work in accordance with the Plans, Specifications and Project Schedule is required to provide the protection and/or heating.
7.	Each Trade Contractor is required to provide its own <b>temporary power</b> (generators tentatively not applicable) and lighting if additional is needed beyond the temporary power onsite. All trades are responsible to provide their own power for welders. This includes and wiring, tie-ins, or devices to run their welders. They are not permitted to be run on the temporary power provided for the work of this bid package(s). At no time shall the noise generated by generators be overwhelming or disruptive to University operations. Generators shall be placed to minimize noise and exhaust impacts.
8.	While working on-site, Trade Contractors shall fill out Construction Manager's <b>Daily Construction Report (DCR)</b> form & labor utilization form. These forms are to be delivered to the jobsite (Turner Superintendent interacting with Trade Contractor) office by no later than 10:00 am the following business day. Failure to perform this duty shall result in delay of payment until all reports have been received. The daily report may be available via electronic format for completion of same.
9.	<p><b>CLEAN UP</b></p> <ul style="list-style-type: none"> <li>a. Trade Contractors are responsible to perform clean up on a <b>continuous basis</b>. This cleaning shall at no time be less than once per day. Each and every work area must have all trash, debris &amp; scrap removed and properly disposed of, all materials neatly stacked and the floor <b>broom swept on a daily basis</b>. Each Trade Contractor is required to maintain sufficient brooms, shovels, and sweeping compound on site to keep his work area clean. If daily cleanup and rubbish removal are not performed to the satisfaction of the Construction Manager or the Owner, cleanup and rubbish removal will be performed by others and all costs will be backcharged to the at fault Trade Contractor's contract. Cleanup operations shall not 'wait' until end of the week. Trade Contractors will include all costs for daily cleanup in the contract price.</li> <li>b. At no time shall the streets, building, or areas that surround the work be in a disorderly or dirty condition.</li> <li>c. All private and public paved roadways, parking areas, service roads, etc., are to be kept free of mud, debris, etc., resulting from equipment or vehicles performing the work under their respective Trade Contract, in compliance with local city Ordinances. All Trade Contractors are responsible to include in their contract price dust and mud control, traffic control and roadway cleaning. All Trade Contractors are responsible to clean streets of any debris or spillage of any material as a result of the performance of their work as directed by the Construction Manager. Scraping streets 'clean' with a backhoe or "skid steer" is not acceptable debris control. All street cleaning conducted must be swept clean in addition to scraping up of large debris. All paved areas are to be kept "broom clean" at all times. Failure to do so may result in serious fines imposed on each violating Trade Contractor. Any charges directed at the Construction Manager by others, due to the fact that this procedure is not being implemented, will be backcharged to the offending Trade Contractor. Dust control measures shall be provided by all trade contractors as necessary for their work.</li> <li>d. Burning of trash is NOT permitted.</li> <li>e. Dumpsters will be provided for general construction debris ONLY in accordance with scopes of work and these general requirements. Locations for construction debris will be coordinated with the Construction Manger. <u>All crating materials must be disassembled and/or flattened prior to placement in dumpsters</u>. All demolished items must be removed in dumpsters or trucks provided by the contractor removing the items. Any materials that require special care and/or disposal shall remain the contractor's obligation to dispose of.</li> <li>f. Trash receptacles will be furnished for trash &amp; refuse throughout the building and site as outlined in the specific scopes of work and these general requirements. These receptacles are not for construction debris, packing materials, cartons, pallets, scrap, etc.</li> <li>g. It is the responsibility of the Trade Contractors to coordinate the clean-up effort, including removal of non-identifiable items such as lunch wrappers, cans, plastic bottles, etc.</li> <li>h. All Trade Contractors are required to perform a final cleaning of its work and the jobsite.</li> <li>i. It is each Trade Contractor's responsibility to place refuse and debris resulting from their direct operations in the refuse containers ("Mobile trash carts/cans") and emptied into the site dumpster by that contractor.</li> </ul>



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10.	<p><b>INSPECTIONS</b></p> <ul style="list-style-type: none"> <li>a. The Trade Contractors shall coordinate, in a timely manner, all city, county, state, or other inspections as required for the completion of its Work in accordance with the Project Schedule. The Trade Contractors understand that multiple inspections (i.e. in-wall, above ceiling, etc.) may be required per area to maintain project schedule. The Trade Contractors shall schedule these inspections in a timely manner with no added cost to the Construction Manager or owner.</li> <li>b. The Trade Contractors shall cooperate with and include the costs of all labor and materials required to assist the Owner’s testing/inspection agency with inspections and gathering of samples and assistance in access to the specific locations of tests/inspections, and demonstrations. Initial costs for testing laboratory shall be by others if so noted in documents. Costs for re-test due to noncompliance shall be borne by the offending Trade Contractor. A minimum of 24 hour notice must be given to the testing agency for testing required during normal working hours. If testing is required on weekends, 48 hour notice is required.</li> <li>c. Coordinate with the Owner’s Testing/Inspection Agency as required by the specifications.</li> <li>d. The Trade Contractors will cooperate with and demonstrate system operation and safety compliance with the local building and fire inspectors as needed and required for building occupancy. All associated costs, inclusive of after-hours inspections, are the responsibility of the Trade Contractor installing the system.</li> </ul>
11.	All contractors are to understand that this is a <b>LEED</b> certified project. Contractors are to make themselves familiar with the requirements laid out in the specifications and follow those requirements.
12.	Contractors are to <b>verify layout</b> provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor. Contractor shall not use any permanent marking (Sharpie, spray paint, etc.) on the concrete slabs.
<b>F.</b>	<b>SCHEDULE</b>
1.	This project will utilize a <b>LEAN scheduling</b> approach to fully-develop this project’s scheduling details (See Attachment I). All contractors will be required to participate in reverse-phase, pull-planning scheduling sessions to develop and schedule the construction work. PMs, superintendents, and foreman will be required to participate in these sessions. Participants are expected to come prepared with work scopes broken down into components knowing their scope details, manpower requirements, and expected durations.
2.	This project will utilize the <b>Last Planner System</b> which provide the planning, management, and control tools necessary to efficiently manage the project schedule. In addition to the pull-planning and make ready planning, all contractors will be required to submit a Weekly Work Plan (WWP) weekly to be reviewed by the CM against the schedule as well as participate in daily 15-minute Production Planning Huddles.
<b>G.</b>	<b>DOCUMENT CONTROL</b>
1.	All Trade Contractors will comply with all requirements of the Contract Documents as to <b>Contract Close-Out</b> , including, but not limited to, Operation and Maintenance data, system training, and project record documents. <b>O&amp;M Manuals</b> , training schedules and preliminary as-built drawings are due to the CM prior to 70% trade contractor complete progress billing. The Trade Contractor will be required to submit a form that certifies that all systems, equipment, firestopping comments and incorporated products furnished by the Trade Contractor are complete and operational for the purpose for which the system or product were intended. Each Trade Contractor is responsible to video all start up and training. This video must be of “professional quality” (no cell phone videos) and submitted to the Construction Manager in proper format as part of the Contract Closeout Documents.
2.	All Trade Contractors shall maintain, at the site of the Work, <b>as-built drawings</b> , which will be updated on a weekly basis showing actual installation and all changes in the Work. These drawings will be legibly identified as “Record Documents”, with changes noted in a legible, concise and explanatory manner in <u>red ink</u> . The Record Documents are subject to review by the Construction Manager on a weekly basis. Any contractor not keeping a current record of the changes made to its Work on the Record Documents will be subject to having Progress Payments withheld until all changes are brought current to the satisfaction of the Construction Manager. Final As-Built Record Documents must be submitted to the Construction Manager in electronic format. As-built drawings and photos shall be reviewed by the Construction Manager prior to covering the work.
3.	Each Trade Contractor shall submit a <b>submittal schedule</b> to The Construction Manager within 10 days of Contract award. Submittal submission must begin within 15 days of Contract award or sooner if required to maintain the Project Schedule. Schedule shall include material lead times. Please note that all submittals/samples must be sent to Turner Construction’s jobsite office for review. Include the costs for any postage required. Submittals will be in accordance with the Special Conditions Article 8.
4.	<p><b>PROJECT MANAGEMENT SOFTWARE (eComm)</b></p> <ul style="list-style-type: none"> <li>a. All Trade Contractors will be required to have an Internet connection, a working email address (checked daily) and utilize eComm, the University of Kentucky’s web based project management system.</li> </ul>

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	<ul style="list-style-type: none"> <li>b. All Trade Contractors will be required to utilize eComm as required by the University and the Construction Manager. This shall include, but not be limited to: RFI's, daily communication, submittal tracking, etc.</li> <li>c. Communication forwarded via eComm will be binding as if sent via traditional methods.</li> <li>d. ALL Trade Contractors will be required to submit initial and ALL "later" approved submittals and shop drawings as a scanned electronic file for eComm. Exceptions will be at the Construction Manager's and Owner's discretion. The file format will be at the discretion of the Owner and the Construction Manager. If a Trade Contractor fails to comply with this provision, they will be responsible for all costs incurred by the Construction Manager to have said drawings and submittals scanned. Refer to Special Conditions for additional detail. Reference General Conditions for number of "copies".</li> </ul>
5.	<p>Contractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for satisfactory review. Contractor shall be allowed a maximum mark up for overhead and profit per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents.</p> <ul style="list-style-type: none"> <li>a. All Change Order Requests, Time &amp; Material Tags, and Pricing Submissions will be in electronic format and shall be submitted to Turner using the <u>Clearstory</u> project management system. Clearstory is no cost to Subcontractors and will help the project team collaborate on change orders, pricing requests, and T&amp;M tags.</li> </ul>
6.	<p>All <b>Applications for Payment</b> and all supporting documents (including but not limited to lien waivers, sworn statements, and the like) for Subcontractor and its sub-subcontractors and suppliers, shall be in electronic format and shall be submitted to Contractor using the <u>Textura-CPM™</u> payment management system. Subcontractor shall be responsible for the fees and costs owed associated with Subcontractor's use of the Textura-CPM™ payment management system. Subcontractor shall include a similar provision in its sub-subcontracts and purchase orders. Fees to Subcontractors are calculated as 0.22% (22 basis points) of contract value, with a minimum fee of \$50 and a maximum fee of \$5,000. Fees to Subcontractors' sub-subcontractors and suppliers are a fixed fee of \$100 per sub-subcontractor or supplier contract.</p>
<b>H.</b>	<b>SITE SPECIFIC</b>
1.	<p><b>TC-019 Site General Trades</b> is to provide &amp; maintain, one-hundred (100 ea) <b>20# fire extinguishers</b> with free standing stands placed throughout the site in accordance with Turner Construction and OSHA standards for the duration of their contract. Provide initial certification upon delivery and re-certification as needed.</p>
2.	<p><b>TC-019 Site General Trades</b> will furnish and maintain twenty (20) (minimum 55 gallon Rubbermaid drum) <b>trash cans</b> for miscellaneous trash (not construction materials) from the commencement of the project. Trash cans to remain at the project after completion of this contract or when no longer required as dictated by the CM.</p>
3.	<p><b>TC-019 Site General Trades</b> contractor will furnish (repair or replace when necessary) thirty (30) new, mobile, one cubic yard, covered <b>trash carts</b>. Trash carts should be equipped with a lid or some form of covering. Trash carts to remain at the project after completion of this contract or when no longer required as dictated by the CM.</p>
4.	<p><b>TC-019 Site General Trades</b> shall provide two (2) 30-yd <b>dumpsters</b> at all times and all required quantity of "pulls" for general construction debris for the duration of their contract. Note: these dumpsters are intended to be used for general construction debris ONLY, not debris associated with excavation activities. Dumpsters for excavation activities will be provided and maintained by others.</p> <ul style="list-style-type: none"> <li>a. All contractors to follow specification section 01 7419.01 (COMPLETE). Please note the requirements to sort debris for the purpose of recycling. In addition to the (2) general debris dumpsters, <b>TC-019 Site General Trades</b> shall provide (2) dumpster for the purposes of recycling per the site LEED requirements. Include all required pulls for 39 weeks.</li> <li>b. <b>TC-019 Site General Trades</b> shall provide custom dumpster covers similar to ALCO Roll Off Container Covers for all dumpsters provided. Contractor shall include covering dumpsters whenever they are not in use and uncovering when they need to be used.</li> <li>c. Location of dumpsters to be coordinated with CM. Dumpsters to be emptied on a consistent and regular basis to support the construction operations. Contractor shall include relocating the dumpsters as needed to facilitate construction activities.</li> <li>d. If <b>any</b> contractor will be generating any concrete, asphalt, or CMU waste, that contractor is responsible for providing a dedicated recycling dumpster for that material. Each contractor shall provide receipts, weight tickets, and manifests indicating receipt and acceptance of recyclable waste by recycling and processing facilities.</li> </ul>
5.	<p><b>TC-019 Site General Trades</b> to provide an <b>all-terrain telehandler (Lull/JLG)</b> for use by all trades for the duration of their contract. The Lull will be used for material deliveries, trash removal, site fence maintenance, and other miscellaneous site activities as needed. In the event of Lull downtime there will be no compensation resulting from equipment failure. Lull basis of design is a 10,000lb rated machine.</p>

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	<ul style="list-style-type: none"> <li>a. <b>TC-019 Site General Trades</b> to maintain a (1) self-dumping 4-cu. yd. hopper to be used for trash provided by others. Hopper to remain at project site at conclusion of this contract. Contractor to include all maintenance needed so there is no downtime.</li> <li>b. <b>TC-019 Site General Trades</b> is responsible for maintenance and all fuel for the Lull for the duration of their scope of work.</li> </ul>
6.	<p><b>TC-019 Site General Trades</b> shall provide a <b>full time Yard Boss/Operator [(5) 10-hour work days/week = 50 hrs./wk.]]</b> for the 39 weeks. This person will be responsible for tasks including but not limited to the following: opening and closing the site gates daily, scheduling and coordinating deliveries, operating the Lull for deliveries and trash removal, operating street sweeper, etc. This person shall have a minimum of 10 years of construction experience and possess all applicable equipment certifications (all-terrain lift, scissor lift, boom lift, street sweeper, etc).</p>
7.	<p><b>TC-019 Site General Trades</b> to maintain, or provide where noted, <b>Temporary Construction</b> work as noted below and as shown on the project drawings &amp; Site Logistics plan:</p> <ul style="list-style-type: none"> <li>a. <b>TC-019 Site General Trades</b> to maintain 8' <b>chain link construction fence</b> provided by others (per UK standards) for the perimeter of all construction areas, trailer areas, and laydown areas as shown on Site Logistics Plans. Include costs to maintain all fencing, gates, locking material 24/7 for duration of this contract. Fence to be a combination of jersey barriers and driven posts. Provide and maintain safety signage at 20' o.c. max intervals on fence as directed by Construction Manager. Provide a 24/7 on-call representative for immediate response to emergency corrections/maintenance as needed. The site fencing will remain after the completion of this contract, removed by others at a later date, and turned over to the owner.             <ul style="list-style-type: none"> <li>i. Maintain (2) automatic rolling gate closer devices at the 40' entrance (Gate #2) with keypad access.</li> <li>ii. Include necessary hours and equipment to modify/move fence panels/jersey barriers as needed.</li> <li>iii. For water-filled jersey barriers, include filling with water and maintaining water levels required for safety. Treat water for winter usage when necessary. Include replacement of damaged barriers as needed.</li> <li>iv. Maintain fence screening for entire perimeter of fence.</li> <li>v. This contractor shall maintain deck system installed around trailer and restroom complex in the laydown area.</li> </ul> </li> <li>b. Maintain a <b>sidewalk canopy scaffold system</b> for overhead protection of the sidewalk adjacent to fence along University Drive from Huguelet Drive to the Behavioral Science Building. Maintain a clear height of 8' throughout. Scaffold shall be properly secured to prevent uplift and overturn.             <ul style="list-style-type: none"> <li>i. Maintain and replace lights/bulbs in the canopy system as needed. Lights to never be down for more than an 8 hour period.</li> </ul> </li> <li>c. This contractor to inspect fence and overhead protection daily and repair deficiencies as needed. Maintain log of inspections. Submit log to Construction Manager once per week.</li> <li>d. This contractor is responsible for opening and securing the site at the end of the day. This includes all gates.</li> <li>e. This contractor is responsible for installation of <b>concrete walk and stairs</b> in front of the Dimock building (see SK-001)             <ul style="list-style-type: none"> <li>i. Assume the walkway to be 4" thick 4000psi concrete, 8' wide, 100' long, 4" of subgrade. Walk is to pour flush with existing concrete curbs. Include wire mesh per UK standards.</li> <li>ii. Assume the stairs to be 4000psi concrete, 8' wide, 3' tall, and 4 treads. Stair shall include a rod iron metal railing securely fastened to the stairs.</li> </ul> </li> <li>f. This contractor shall maintain and remove when no longer needed plywood protection over the windows on the east side of Dimock installed by others.</li> </ul>
8.	<p><b>TC-019 Site General Trades</b> is responsible for all <b>grass cutting and weed eating</b> inside the site limits and the Trailer and Laydown Yards as well as both sides of the fence line twice per month.</p>
9.	<p><b>TC-019 Site General Trades</b> shall provide a full-time on-site <b>street sweeper</b> (assume Laymor Sweepmaster 300 or similar). Provide street cleaning as necessary, with a minimum of twice daily for the duration of this contract. Provide power sweeping and scrubbing of all paved areas, sidewalks, etc. soiled as a result of the work inside and outside of project site limits to the satisfaction of the Construction Manager. This Trade Contractor must clean all adjacent streets and maintain as if there were no construction site in the area. Huguelet Drive, University Drive, Veterans Drive any other impacted streets must be swept daily for the duration of this contract. Street must be immediately swept and cleaned if there is excessive tracking as determined by the Construction Manager. Any and all costs associated with street cleaning, inclusive of permits and fines will be the responsibility of this Trade Contract. In the event of sweeper downtime there will be no compensation resulting from equipment failure.</p>
10.	<p><b>TC-019 Site General Trades</b> contractor to provide twice per week <b>cleaning services</b> for the CM offices located inside the Dimock Building (Approximately 2,000 SF) as well as the Office and Restroom Trailer Complex located to the east of University Flats (Approximately 4,000 SF) for 39 weeks. This shall be completed by a contractor that specializes in cleaning and is approved by the CM. Cleaning shall include, but is not limited to sweeping and mopping floors, taking out trash, restocking paper supplies in the restrooms, cleaning plumbing fixtures, furnish paper supplies for restrooms, replacing trash can liners, wiping down surfaces, etc. This cleaning shall be completed outside of working hours.</p> <ul style="list-style-type: none"> <li>a. Provide and maintain boot scrubbers at entrances to CM offices at both the Dimock Building and Office Trailer.</li> </ul>

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	<p>b. Provide cleaning as needed along travel path from the entrance of the Dimock Building to the CM Office (at minimum twice/day).</p>
11.	<p><b>TC-019 Site General Trades</b> contractor will maintain the Project Break Area for 39 weeks. Assume Project Break Area is 2000 sqft. This includes, but is not limited to:</p> <p>a. This contractor to include professional cleaning (mopping floors, wiping down tables, wiping of chairs, cleaning of microwaves, cleaning of refrigerators, trash removal, replacing of can liners, cleaning of walk off mats, etc.) minimum 3 times weekly by a competent cleaning company to be approved by the CM. This shall be complete after working hours</p> <p>b. This contractor shall include a deep clean/scrubbing of the Project Break Area once per month for the 39 week duration. Assume this is done on weekends outside of work hours.</p>
12.	<p><b>TC-013 Site Plumbing</b> has provided <b>temporary water</b> and should coordinate the final location(s) on the site with CM.</p> <p>a. This contractor has provided and will maintain (2) spigots that are protected from equipment and freeze-protected that are to be left behind and disconnected by others at the completion of the project.</p> <p>b. This contractor has provided and will maintain (2) heated temporary hand washing stations similar to PolyJohn PSW3-2000. Electrical connection by others. Coordinate with CM on final locations.</p>
13.	<p><b>TC-015 Foundations</b> Contractor has included (3) stationary scaffold stair towers from basement level to top of foundation wall along with (3) scaffold walkways with scaffold guard rail protection that span from the stationary scaffold stair tower to over lagging wall for use by all trades. This trade contractor is to relocate these stair towers and walkways as needed for their work or as directed by the CM. This contractor is to inspect all stair towers and walkways prior to beginning of work each day. These will be removed at the end of their contract.</p>
14.	<p>Temporary facilities (toilets) for this project will be located on or near the project site. Trade contractors are not permitted to use the active university building toilets.</p> <p>a. <b>TC-019 Site General Trades</b> contractor is to provide and leave at project site at the conclusion of this contract a Restroom Trailer (separate from the one already provided by previous contractor) complete with heating and cooling, running hot and cold water. Trailer shall have a minimum 6 men’s stalls, 3 urinals, 2 women’s stalls, &amp; 4 sinks. Trailer selection to be approved by CM.</p> <p>i. Include black water and non-potable holding tanks pumped out and filled as needed. Holding tanks shall be complete with heat trace to prevent freezing. This contractor to monitor tank levels daily.</p> <p>ii. TC-019 to provide (3) “Port-O-Lets” for 39 weeks to be used in the event of restroom trailer failure. These are to be locked at all times and only used when failure occurs. These are to be located next to the portable restroom trailer.</p> <p>b. <b>TC-019 Site General Trades</b> contractor will maintain both the Restroom Trailer provided by the previous contractor and the one provided by this contractor for the project site, for 39 weeks. This includes, but is not limited to:</p> <p>i. Professional cleaning (minimum 3 times weekly by a competent cleaning company to be approved by the CM) after working hours.</p> <p>ii. Restocking of soap and paper products.</p> <p>iii. Pumping and unclogging of obstructions.</p> <p>iv. Removal of trash and relining of cans</p> <p>v. Maintaining holding tanks.</p> <p>vi. Relocating as needed per Construction Manager’s direction.</p> <p>vii. Completing and logging restroom inspections 3 times daily and submitting to the CM.</p>
15.	<p><b>TC-019 Site General Trades</b> Contractor will be responsible for all dewatering and/or snow removal required. This would apply to areas outside of the project site that are to be used for “staging”, material stocking, and other deliveries. This would also apply to the offsite parking, any stair towers, trailer yards, laydown yards, project walkways, etc.</p> <p>a. This contractor shall provide a 55 gallon “wet/dry shop vac” on wheels and a 20 gallon, walk behind, battery powered, floor scrubber/vacuum. These are to be used in the event of water on or general cleaning of the slabs.</p>
16.	<p><b>TC-019 Site General Trades</b> to provide <b>Vertical Transportation</b> for the project.</p> <p>a. <b>TC-019 Site General Trades</b> shall provide a double barrel <b>Buck Hoist</b> with two operators for 45 weeks. Contractor to assume Alimak Scando 650 FCS31/50II or similar with approval from the CM. Assume that the operators will be working 5 (10) hour days a week.</p> <p>i. Internal length of each car is to be 16’-4 ¾” or greater. Each car shall have a payload capacity of 7000lbs. Contractor shall submit shop drawings stamped by a professional engineer.</p> <p>ii. This contractor shall design and install buck hoist foundation and remove when no longer needed.</p> <p>iii. This contractor shall include one jump of the buck hoist for vertical erection.</p> <p>iv. The buck hoist installation shall precede the installation of concrete on each floor. This contractor shall include all work necessary to allow each car to stop and be used at each floor prior to concrete being placed.</p>

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	<ul style="list-style-type: none"> <li>v. This contractor shall include all material and labor needed for each car to stop at every floor. Contractor shall include rework of existing cable rail and installation of fall protection from the buck hoist stop to the guard rail installed.</li> <li>vi. Contractor shall include a weatherproof vestibule at each floor to enclose both buck hoist stops. Assume that each shall be a plywood structure with a set of 4'x8' double doors with self closing hinges. Assume each structure to go from floor to deck, is 20' wide, and 10' deep. Contractor to install a call station at each floor for each car.</li> <li>vii. This contractor shall include all maintenance as need on this buck hoist system including 24/7 response if failure occurs. Assume that maintenance shall be coordinated with onsite work and will be performed outside of working hours.</li> <li>viii. This contractor shall include a <b>Receiving Dock</b> to be built around the buck hoist (See SK-001). This dock shall be built to a height able to receive truck deliveries without a lift gate and made out of pressure treated wood. Assume dock to be 1,600 sqft. Contractor shall include all maintenance of this dock for the duration of their contract.             <ul style="list-style-type: none"> <li>1. This dock shall include fall protection railing around the entire perimeter. Contractor to include eight (8) 6' wide removable openings for receiving deliveries and dumping trash.</li> <li>2. Include all safety requirements for the installation of the buck hoist near this dock.</li> <li>3. Include 2 sets of stairs from the dock to the ground.</li> </ul> </li> <li>b. <b>TC-019 Site General Trades</b> shall provide <b>Scaffold Stair</b> towers in stair shafts for Stair B, C, and D. Contractor shall assume rental of each stair for 20 weeks.             <ul style="list-style-type: none"> <li>i. Contractor to assume these stairs are to be installed from the Basement through the top of each respective stair tower.</li> <li>ii. Contractor to assume that these will follow the installation of the metal deck installation for that area. Stair shall be elevated to the deck within two weeks of the decking being placed on each respective floor and area.</li> <li>iii. Contractor to assume that each stair tower will need to be removed floor by floor in coordination with the permanent stair installations to never lose stair access to a floor.</li> </ul> </li> <li>c. <b>TC-019 Site General Trades</b> shall provide a <b>Transport Platform</b> from 1<sup>st</sup> floor to basement to be placed in the south "Garden Area" of the building (see SK-001) for the duration of their contract. Contractor to provide BetaMax Max Climber 4000 or equal.             <ul style="list-style-type: none"> <li>i. Contractor shall include all work needed to provide a fully functioning transport platform. This includes, but is not limited to, foundations, safety equipment, electrical connections, design, fees, permits, inspections, etc.</li> <li>ii. This contractor shall include all maintenance as need on this buck hoist system including 24/7 response if failure occurs. Assume that maintenance shall be coordinated with onsite work and will be performed outside of working hours.</li> </ul> </li> <li>d. <b>TC-019 Site General Trades</b> shall provide two <b>Loading Platforms</b> to be installed and moved as need to assist in construction. Contractor shall provide Preston Deck SuperDeck 3.2 or similar with approval by the CM. Contractor shall assume rental for 30 weeks</li> <li>e. <b>TC-019 Site General Trades</b> shall provide <b>Temporary Infill for Permanent Pan Stairs</b>.             <ul style="list-style-type: none"> <li>i. Contractor to assume that infill will be 2"x10" pressure treated wood cut to the full width of the stair. No foam will be allowed. Contractor shall install the wood so that no slippage occurs during use.</li> <li>ii. Contractor to assume that each stair will need to be infilled floor by floor in coordination with the permanent stair installations to never lose stair access to a floor.</li> <li>iii. Contractor shall coordinate the removal of temporary infill with the permanent stair infill installation by the SOMD contractor.</li> </ul> </li> </ul>
	<p><b>All contractors</b> and their sub tiers are to provide 2% of their total labor force hours to a <b>consolidated clean up crew</b>. Participation in this effort does not relieve the contractor of their daily clean up duties.</p> <ul style="list-style-type: none"> <li>a. <b>TC-019 Site General Trades</b> shall provide a Clean Up Crew foreman for 5 – 10 hours day for a total of 50 hours a week for 30 weeks. This person shall have no other responsibilities than managing this crew. This person shall be efficient in the scheduling and managing of manpower.</li> <li>b. Every contractor will be given notice of the day they are required to supply manpower to this crew. On that contractor's scheduled day, they will supply a worker to the clean up crew foreman by 7:30a with a broom and shovel. This worker shall take break and lunch for the day with this crew. Inability to supply a worker for the day and/or a broom or shovel shall result in a worker or material being provided for you and back charged to the offending contractor.</li> </ul>

FOR THE PROJECT TITLED:

**Health Education Building**  
**UK Project No. 2564.0-11-25 TC-017 Electrical Equipment**  
**JRA Project No. 202170**  
University of Kentucky  
Lexington, Kentucky

To: Prospective Bidders

From: JRA Architects  
301 E. Vine Street  
Lexington, KY 40507

Project Contact: D. Robert Deal, AIA, LEED AP

The Addendum will form a part of the Contract Documents and modifies the original Bidding Documents dated May 2024.

Bidders must acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so may subject the bidder to disqualification.

Bidding Documents, including the Drawings and Specifications, are amended as described herein.

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**ADDENDUM ITEMS:**

**ITEM NO. 1.01**

Refer to drawing E-600Q – ELECTRICAL POWER DISTRIBUTION ONE-LINE DIAGRAM BP-4

- A. Fire pump enclosed circuit breakers have been increased to 1500A rated.
- B. Panel GDB circuit breakers have changed.
- C. Transformer 'TGP' has changed to 500kVA rated.

**ITEM NO. 1.02**

Refer to drawing E-600Q – ELECTRICAL POWER DISTRIBUTION ONE-LINE DIAGRAM BP-4

- D. Feeder for HRCH-1 has been added to substation SUB1A.

**ITEM NO. 1.03**

Refer to drawing E-700Q – ELECTRICAL PANEL SCHEDULES

- E. Circuit breaker changes have been made to multiple panels on this drawing.

**ITEM NO. 1.04**

Refer to drawing E-701Q – ELECTRICAL PANEL SCHEDULES

- F. Circuit breaker changes have been made to multiple panels on this drawing.

**ITEM NO. 1.05**

Refer to drawing E-702Q – ELECTRICAL PANEL SCHEDULES

- G. Circuit breaker changes have been made to multiple panels on this drawing.

**ITEM NO. 1.06**

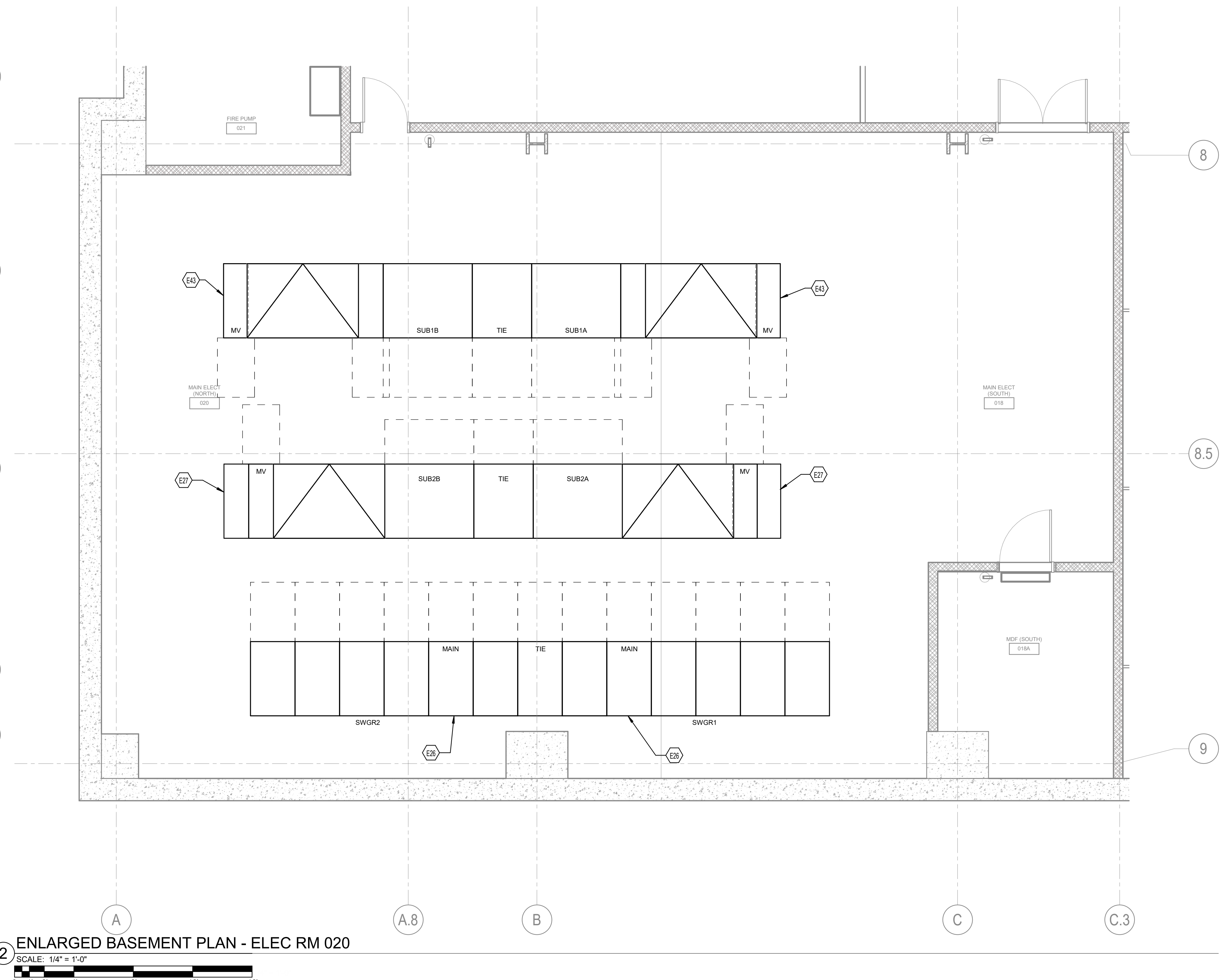
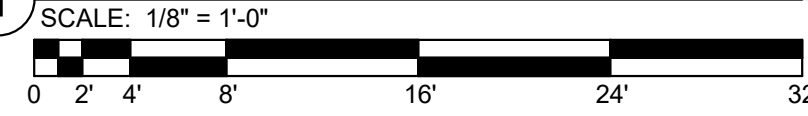
Refer to drawing E-703Q – ELECTRICAL PANEL SCHEDULES

- H. Circuit breaker changes have been made to multiple panels on this drawing.

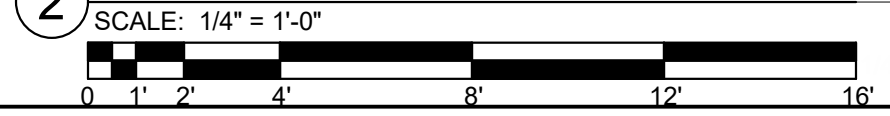
**END OF ADDENDUM NO. 1.00**



**1** EIGHTH FLOOR PENTHOUSE - ELECTRICAL  
BP-4



**2** ENLARGED BASEMENT PLAN - ELEC RM 020



**TAGGED NOTES**

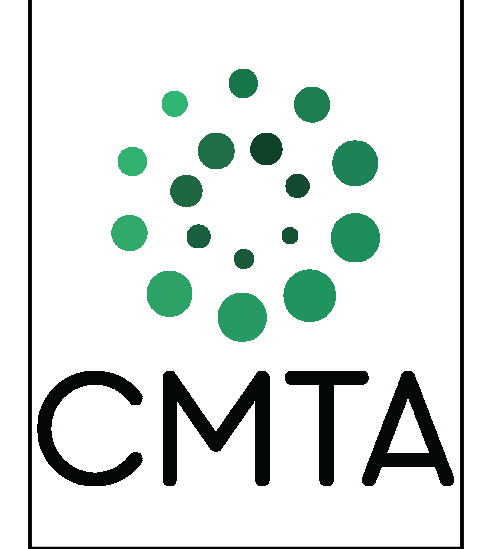
- E26 12470V SWITCHBOARD WITH TOP-FED MAIN SWITCHES. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.
- E27 12470-208Y/1120V UNIT SUBSTATION. EXACT CONFIGURATION IS TO BE DETERMINED DURING BIM MODELLING AND COORDINATION PHASE OF CONSTRUCTION. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.
- E42 ENCLOSED COPPER BUSWAY ROUTED OVERHEAD. EXACT CONFIGURATION IS TO BE DETERMINED DURING BIM MODELLING AND COORDINATION PHASE OF CONSTRUCTION. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.
- E43 12470-480Y/277V UNIT SUBSTATION. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.



3225 Summit Square Plaza, Suite 200  
Lexington, Kentucky 40509  
859.252.6781



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**BP-04**  
**MICHAEL D. RANKIN MD HEALTH**  
**EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ELECTRICAL**

PROJECT 202170/XKSM21  
DATE 05/20/2024

**REVISIONS**

No.	Description	Date

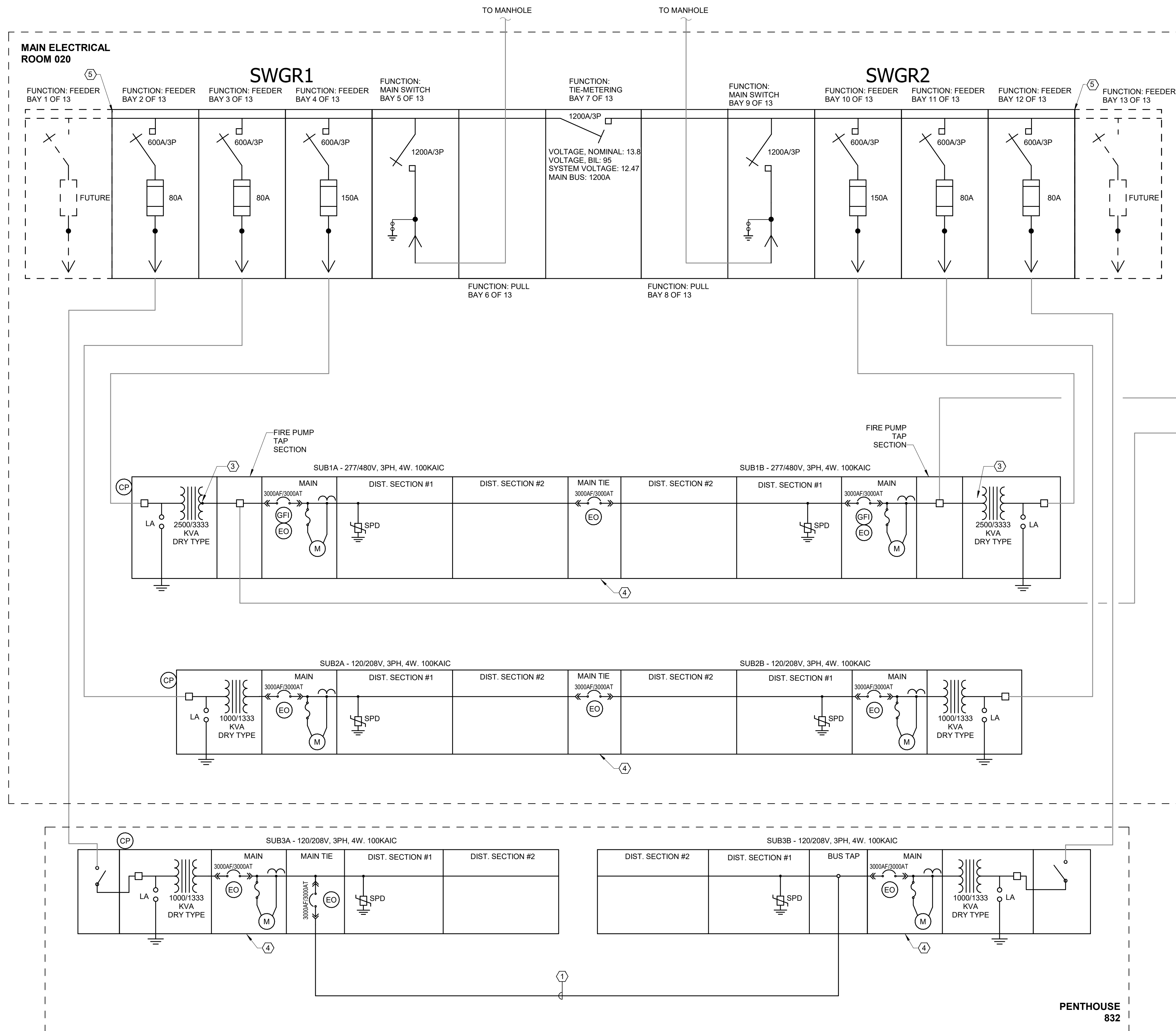
JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMAT IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO REPRODUCE THESE ELECTRICAL FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRICAL FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**ENLARGED ELECTRICAL POWER PLANS - BP4**

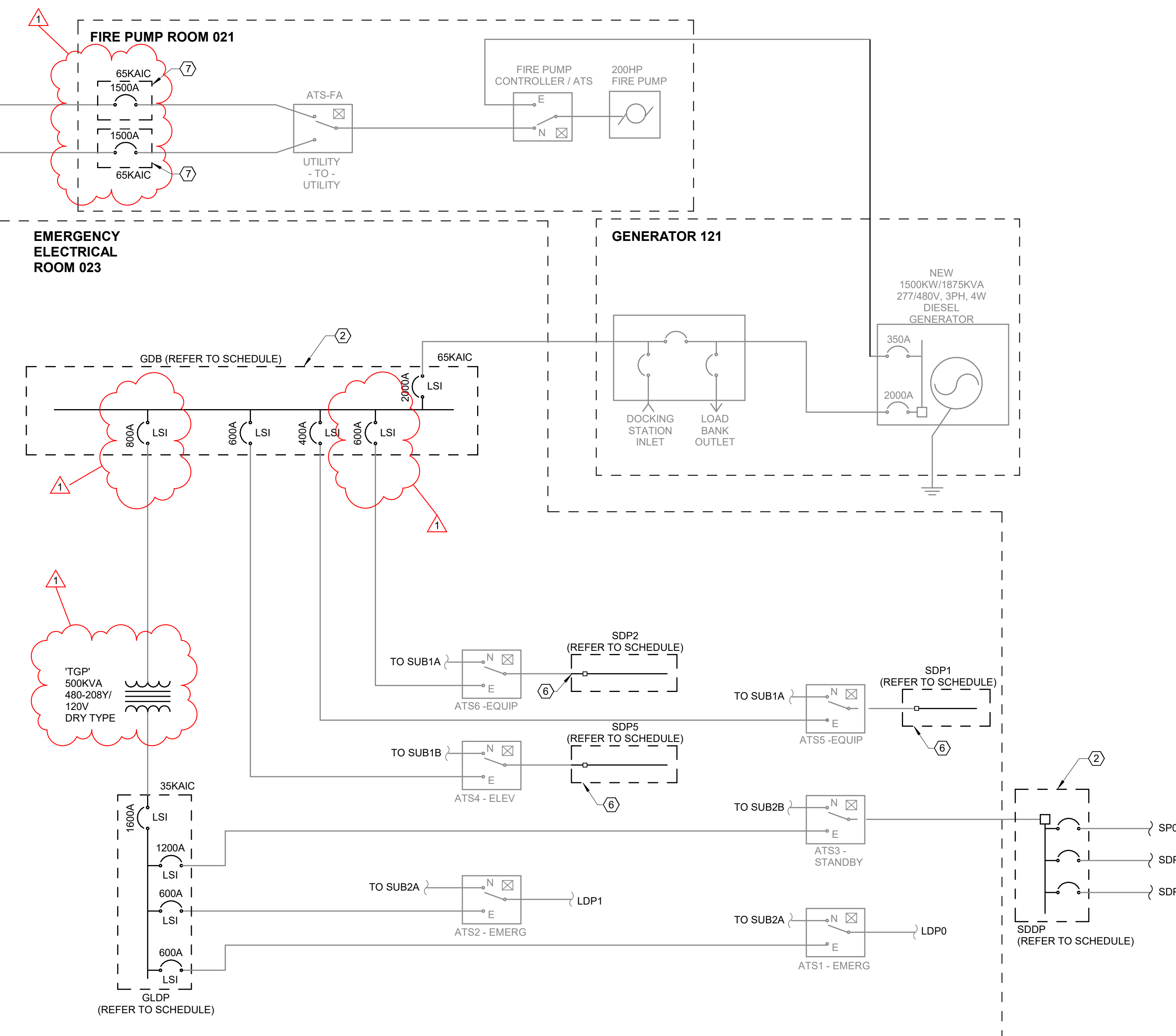
**E-400Q**

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LEGEND	
(GF)	GROUND FAULT TRIP
(EO)	ELECTRICALLY OPERATED
(KI)	KIRK KEY INTERLOCKED
(M)	SOAURE 'D' MODEL PMS563RD ENERGY METER / MONITOR
(CP)	CONTROL PANEL FOR REMOTE PLC CONTROL OF MAINS AND TIES
(E)	ELECTRONIC LSI TRIP BREAKER
(LA)	LIGHTNING ARRESTER
(D)	DRAWOUT TYPE CIRCUIT BREAKER
□	CABLE TO BUS CONNECTION
SPD	SURGE PROTECTION DEVICE
LSI	ELECTRONIC (LSI) TRIP BREAKER



- GENERAL NOTES: (POWER DISTRIBUTION RISER DIAGRAM)
- ALL NEW CONDUCTORS SHALL BE COPPER (REFER TO SPECIFICATIONS FOR TYPES).
  - REFER TO SPECIFICATIONS FOR TYPICAL PANEL LABELING REQUIREMENTS.
  - REFER TO PANEL SCHEDULES FOR EQUIPMENT ACCESSORIES, BREAKER SIZES, AND RELATED INFORMATION.
  - AS PART OF THIS CONTRACT, PROVIDE A COMPREHENSIVE ARC FLASH HAZARD ANALYSIS FOR ALL POWER DISTRIBUTION DEVICES ON THIS PROJECT. PROVIDE ALL LABELS, WARNING SIGNAGE, ETC. PER NFPA-70E AND OSHA REQUIREMENTS. ALL LABELS SHALL BE AFFIXED PRIOR TO FINAL ELECTRICAL INSPECTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURERS NO LATER THAN TWO WEEKS FOLLOWING AWARD OF PROJECT AS REQUIRED TO COMPLETE THE ANALYSIS. STUDY SHALL INCLUDE ALL EXISTING EQUIPMENT IN EXISTING FACILITY. REFER TO SPECIFICATION SECTION 260573, "ELECTRICAL STUDIES", FOR ADDITIONAL REQUIREMENTS.
  - AS PART OF THIS CONTRACT, PROVIDE A COORDINATION/FAULT CURRENT STUDY FOR BREAKERS ON THIS PROJECT. STUDY SHALL INCLUDE ALL MAINS AND FEEDERS SHOWN ON THESE DRAWINGS AND SHALL EXTEND TO THE MAIN LUGS OR BREAKER OF THE FURTHEST DEVICE DOWNSTREAM. THE EQUIPMENT, CRITICAL, AND LIFE SAFETY EMERGENCY POWER SYSTEMS SHALL BE SELECTIVELY COORDINATED TO 0.1 SECONDS THROUGH BOTH THE UTILITY AND GENERATOR DERIVED SYSTEMS. EQUIPMENT PRESENTLY SHOWN IS THE BASIS OF DESIGN - OTHER MANUFACTURERS LISTED AS EQUALS MAY NEED TO MODIFY LAYOUTS AND EQUIPMENT IN ORDER TO MEET THIS REQUIREMENT. ALL MANUFACTURERS MUST UTILIZE ELECTRONIC TRIP BREAKERS WITH ADJUSTABLE TRIP SETTINGS WHERE REQUIRED TO MEET SELECTIVE COORDINATION REQUIREMENTS. WHERE MODIFICATION TO EQUIPMENT INDICATED ON THESE DRAWINGS IS REQUIRED IN ORDER TO ACHIEVE COORDINATION, THESE CHANGES SHALL BE CLEARLY NOTED IN THE STUDY. WHERE ACTUAL BREAKER AMPACITIES ARE INCREASED TO ACHIEVE COORDINATION, THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL COST ASSOCIATED WITH THESE CHANGES IN THEIR BID (INCLUDING INCREASES IN FEEDER SIZES). SUBMIT STUDY AS SHOP DRAWING TO ENGINEER PRIOR TO ORDERING ANY POWER DISTRIBUTION EQUIPMENT. ANY EQUIPMENT SUBMITTED PRIOR TO SUBMISSION OF THIS STUDY WILL NOT BE REVIEWED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURERS NO LATER THAN TWO WEEKS FOLLOWING AWARD OF PROJECT AS REQUIRED TO COMPLETE THE ANALYSIS. REFER TO SPECIFICATION SECTION 260573, "ELECTRICAL STUDIES", FOR ADDITIONAL REQUIREMENTS.
  - REFER TO PANEL AND EQUIPMENT SCHEDULES FOR FEEDER AND OVERCURRENT DEVICE SIZES.
  - ALL EQUIPMENT SHOWN WITH DARK LINES IS INCLUDED IN THIS BID PACKAGE. EQUIPMENT SHOWN WITH LIGHT LINES IS PRESENTED FOR INFORMATION ONLY AND IS NOT PART OF THIS BID PACKAGE.
  - PROVIDE 100% RATED SOLID STATE, ELECTRONIC TRIP BREAKER WITH GROUND FAULT TRIP FOR ALL SWITCHBOARD AND SWITCHGEAR MAIN AND TIE BREAKERS.
- RISER KEYNOTES
- 3000A 277/480V/3PH/4W 100KAIC ENCLOSED COPPER BUSSWAY WITH 100% NEUTRAL.
  - PROVIDE DISTRIBUTION PANEL WITH ELECTRONIC TRIP BREAKERS.
  - PROVIDE DOUBLE LUGS ON SUBSTATION SECONDARY TO FEED FIRE PUMP ATS.
  - PROVIDE OVERHEAD CIRCUIT BREAKER LIFTING DEVICE, MOUNT AT TOP FRONT OF SWITCHBOARD WITH HOIST AND LIFTING YOKES MATCHING EACH DRAW-OUT CIRCUIT BREAKER.
  - FURNISH WITH BUS AND ENCLOSURE PROVISIONS NECESSARY FOR FUTURE EXTENSION TO ADDITIONAL SWITCH COMPARTMENTS.
  - PROVIDE INTEGRATED METER FOR PANEL MAIN LUGS.
  - ENCLOSED CIRCUIT BREAKERS SHALL BE SERVICE ENTRANCE RATED.

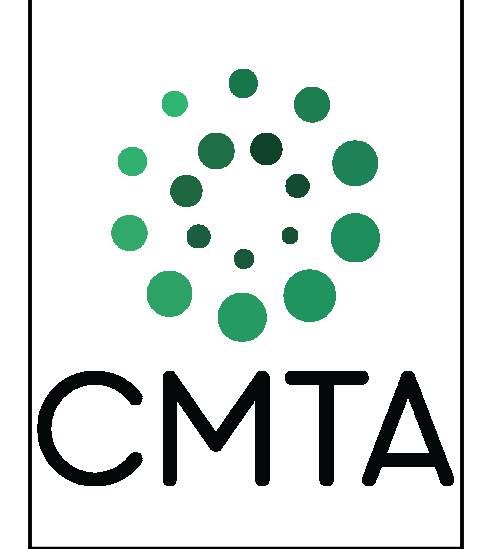


**BP-4 POWER DISTRIBUTION RISER DIAGRAM**

1/8" = 1'-0"



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ELECTRICAL		
PROJECT	202170/XXSM21	
DATE	05/20/2024	
REVISIONS		
No.	Description	Date
1	BP-4 FINAL ADDENDUM	07/24/24

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**ELEC POWER DISTRIBUTION ONE-LINE DIAGRAM - BP4**

**E-600Q**  
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**RISER KEYNOTES**

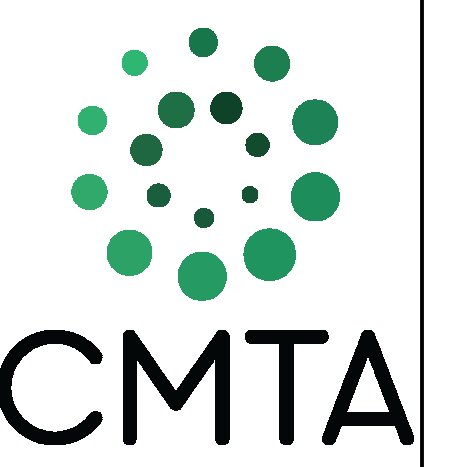
1. LOW VOLTAGE SWITCHBOARD PORTION OF UNIT SUBSTATION. REFER TO SUBSTATION DIAGRAM FOR ADDITIONAL INFORMATION.
2. DISTRIBUTION PANELBOARD. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.

**JRA**  
architects

3225 Summit Square Plaza, Suite 200  
Lexington, Kentucky 40509  
859.252.6781



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**EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ELECTRICAL**

PROJECT 202170/XKSM21

DATE 05/20/2024

**REVISIONS**

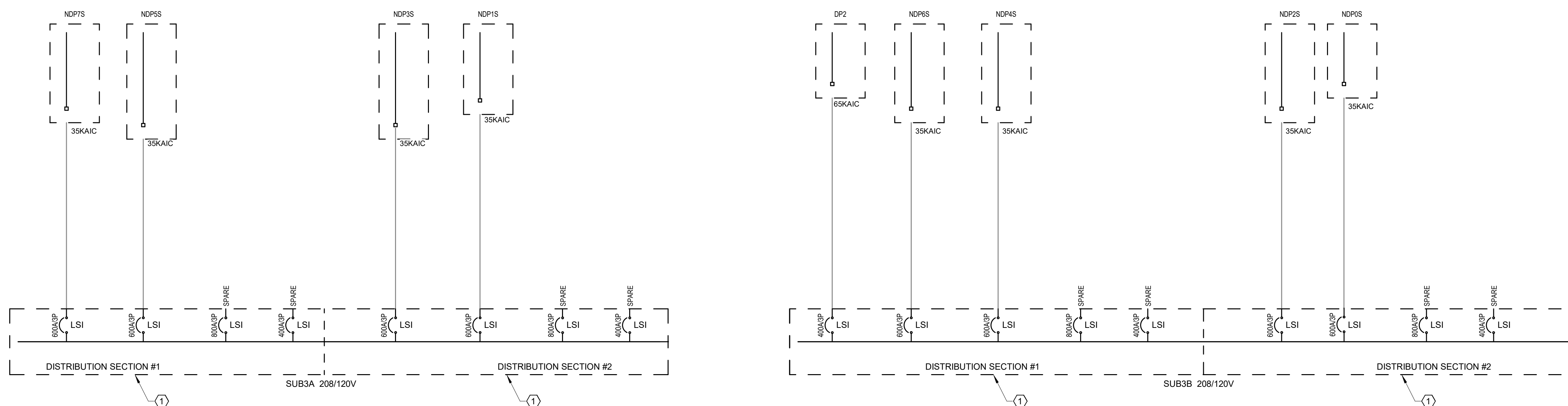
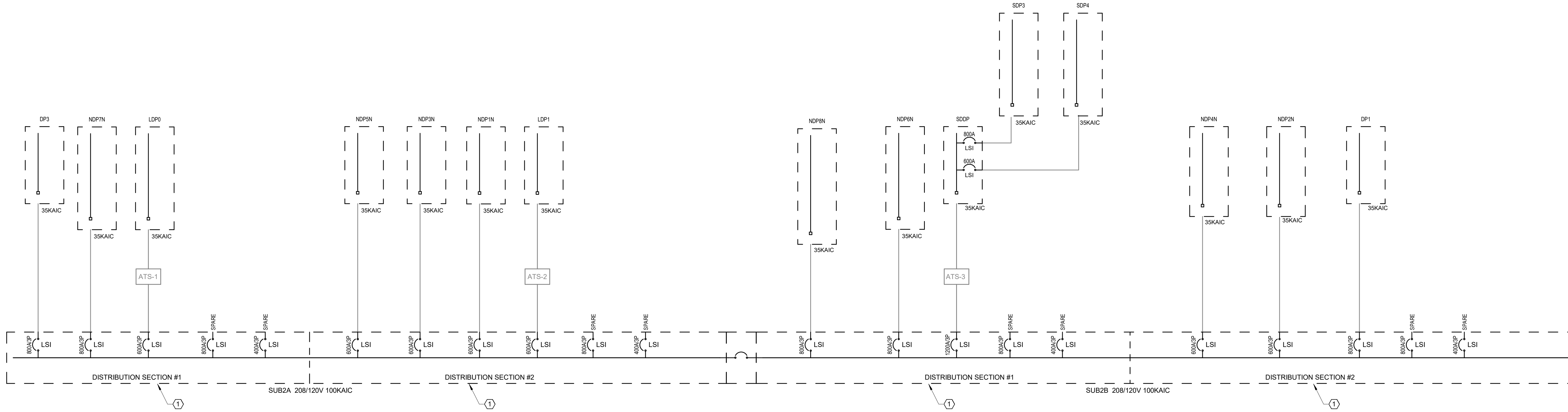
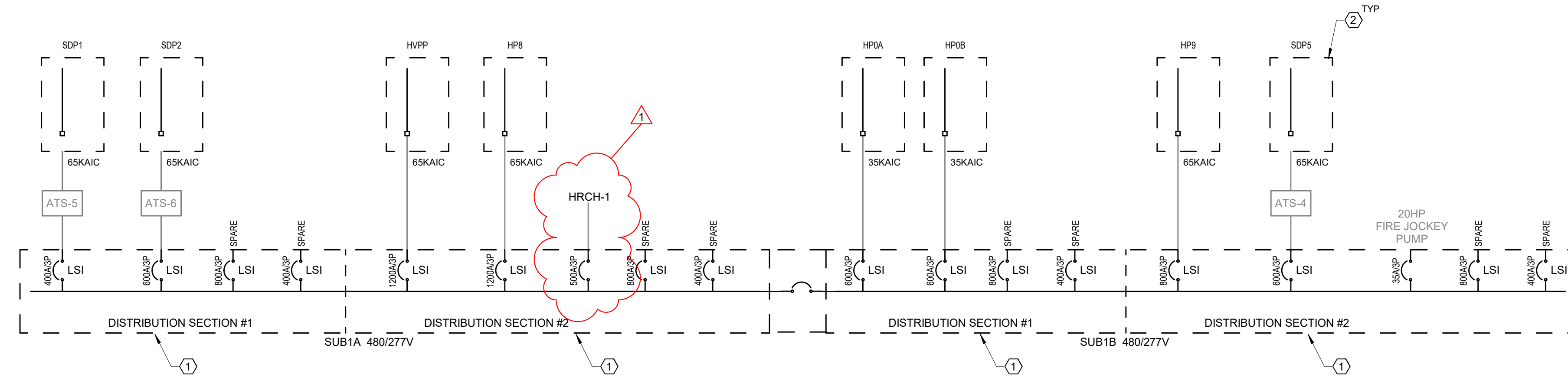
No.	Description	Date
1	BP-4 FINAL ADDENDUM 07/24/24	

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**POWER**  
**DISTRIBUTION**  
**ONE-LINE**  
**DIAGRAM -**  
**BP4**

**E-601Q**

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**E-601Q - BP-4 ONE-LINE DIAGRAM**

SCALE: NONE



PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for SDP5. Includes panel info (SDP5, 480Y/277V, 3P, 4W, 600A), main type (MLO), and a table of circuit descriptions (Elevator Controller, HVAC, Spare) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for DP3. Includes panel info (DP3, 208Y/120V, 3P, 4W, 800A), main type (MLO), and a table of circuit descriptions (RPSA, RPPC, MPP, HVAC, LTNG, REC, Spare) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for HP8. Includes panel info (HP8, 480Y/277V, 3P, 4W, 1200A), main type (MLO), and a table of circuit descriptions (AHU-SP-1 SUPPLY, RETURN, SP-2 SUPPLY, RETURN, SP-3 RETURN, HVAC, Spare) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for DP1. Includes panel info (DP1, 208Y/120V, 3P, 4W, 800A), main type (MLO), and a table of circuit descriptions (RPSA, RPPA, SPARE, REC) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for HP0A. Includes panel info (HP0A, 480Y/277V, 3P, 4W, 600A), main type (MLO), and a table of circuit descriptions (AHU-B-3 SUPPLY, RETURN, SPARE, DWBP-1, SPARE) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for HP9. Includes panel info (HP9, 480Y/277V, 3P, 4W, 800A), main type (MLO), and a table of circuit descriptions (Elevator Controller, HVAC, ELEVATOR CONTROLLER, HVAC, SPARE) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for DP2. Includes panel info (DP2, 208Y/120V, 3P, 4W, 400A), main type (MLO), and a table of circuit descriptions (AHU-SP-4 CTRL, PANEL, HFC-200, FFP-S, SPARE) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for HP0B. Includes panel info (HP0B, 480Y/277V, 3P, 4W, 600A), main type (MLO), and a table of circuit descriptions (CHWP-1A, 1C, 1B, 2A, 2B, HWP-2B, SPARE) with columns for hot, neutral, ground, OCP, P, C, and notes.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for HVPP. Includes panel info (HVPP, 480Y/277V, 3P, 4W, 1200A), main type (MLO), and a table of circuit descriptions (AC-1, RAMP-1B, AHU-NP-1 RETURN, 2 RETURN, 3 RETURN, ELEVATOR CONTROLLER, HVAC, SPARE) with columns for hot, neutral, ground, OCP, P, C, and notes.



3225 Summit Square Place, Suite 300  
Lexington, Kentucky 40509  
859.252.6781



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Electrical project information table including project name (202170/XKSM21), date (05/20/2024), and a table of revisions.

ELECTRICAL PANEL SCHEDULES - BP4  
E-701Q  
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PANEL SCHEDULE KEY table mapping panel types (SDP5, DP1, DP2, DP3, HP8, HP9, HP0A, HP0B, HVPP) to their respective panelboard types.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP0S. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP1N. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP1S. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP2N. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP2S. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP3N. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP3S. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP4N. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP4S. Includes panel type, voltage, amperes, main type, location, and a detailed table of circuit descriptions, hot/neutral/ground, OCP, P, Ckt, and notes. Includes load classification and totals.

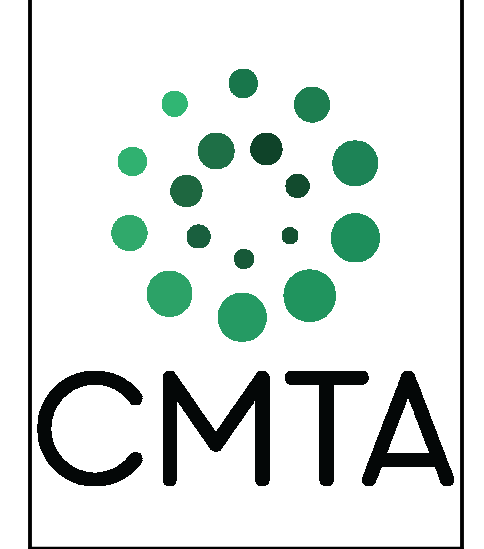
PANEL SCHEDULE KEY table with columns for panel type and schedule type.



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Lexington, Kentucky 40509  
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PANEL  
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PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP5N. Includes panel details (VOLTAGE: 208Y/120V, 3P, 4W), main type (M.O.), and a table with columns for circuit description, hot/neutral/ground, OCP, P, C, and notes. Includes a load classification table at the bottom.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP5S. Includes panel details (VOLTAGE: 208Y/120V, 3P, 4W), main type (M.O.), and a table with columns for circuit description, hot/neutral/ground, OCP, P, C, and notes. Includes a load classification table at the bottom.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP6N. Includes panel details (VOLTAGE: 208Y/120V, 3P, 4W), main type (M.O.), and a table with columns for circuit description, hot/neutral/ground, OCP, P, C, and notes. Includes a load classification table at the bottom.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP6S. Includes panel details (VOLTAGE: 208Y/120V, 3P, 4W), main type (M.O.), and a table with columns for circuit description, hot/neutral/ground, OCP, P, C, and notes. Includes a load classification table at the bottom.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP7N. Includes panel details (VOLTAGE: 208Y/120V, 3P, 4W), main type (M.O.), and a table with columns for circuit description, hot/neutral/ground, OCP, P, C, and notes. Includes a load classification table at the bottom.

PANELBOARD AND WIRING SCHEDULE

Panelboard schedule for NDP7S. Includes panel details (VOLTAGE: 208Y/120V, 3P, 4W), main type (M.O.), and a table with columns for circuit description, hot/neutral/ground, OCP, P, C, and notes. Includes a load classification table at the bottom.

PANELBOARD AND WIRING SCHEDULE

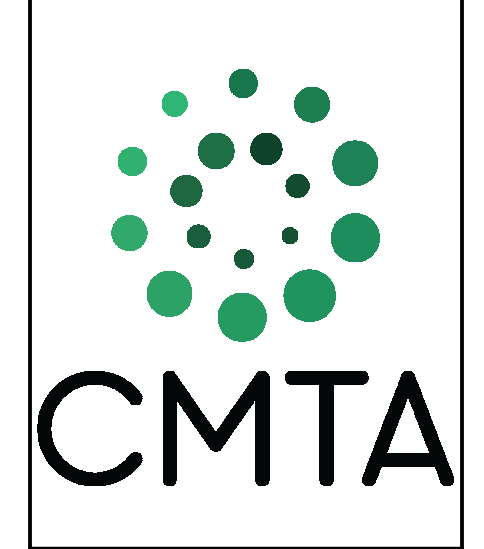
Panelboard schedule for NDP8N. Includes panel details (VOLTAGE: 208Y/120V, 3P, 4W), main type (M.O.), and a table with columns for circuit description, hot/neutral/ground, OCP, P, C, and notes. Includes a load classification table at the bottom.



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PROJECT 202170/XKSM21  
DATE 05/20/2024

Revisions table with columns: No., Description, Date. Row 1: 1 - BP-4 FINAL ADDENDUM / 07/24/24

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ELECTRICAL PANEL SCHEDULES - BP4

E-703Q

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PANEL SCHEDULE KEY table with columns: Panel ID, Description, Notes. Rows: NDP5N, NDP5S, NDP6N, NDP6S, NDP7N, NDP7S, NDP8N.